KENWOOD

Listen to the Future

ADVANCED WIRELESS COMMUNICATIONS

TK-480/481

800/900 MHz FM Portable Radios

FleetSync® by KENWOOD

GENERAL FEATURES

- 2.5 W 800 MHz Models
- 2.5 W 900 MHz Models
- Trunked Format [1]
- LTR® Trunked Systems
- Conventional Systems
- 32 Systems / 250 Groups
- System Scan
- List Type System Scan
- 10 Character Alphanumeric Aliases
- Lighted Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF/PF Keypad [2]
- 500 mW Speaker Audio
- Companded Audio
- Encryption / ANI Board Control
- Emergency Call Features
- Emergency Man-Down Option
- DTMF Encode / Decode [3]
- Time Out Timer
- Low Battery Alert
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Option
- Windows® Programming & Tuning [4]
- Windows® Firmware Uploading [4]
- Front Panel Test
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- Intrinsically Safe Option
- NPSPAC Option

CONVENTIONAL SYSTEMS

- QT / DQT
- Single Priority Group Scan
- Busy Channel Lockout

TRUNKED SYSTEMS

- Kenwood LTR® Features [5]

FleetSync® [6]

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages (Option) [7]
- PC Serial Interface (Option)

Keypad model also available.
(Not actual size proportion)

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Options

- **KNB-16A** Ni-Cd Battery Pack (1100 mAh)
- **KNB-17A** Ni-Cd Battery Pack (1500 mAh)
- **KNB-17B** Ni-Cd I.S. Battery Pack (1500 mAh)
- **KNB-21N** Ni-MH Battery Pack (1600 mAh)
- **KNB-22N** Ni-MH Battery Pack (2100 mAh)
- **KNB-22NC** Ni-MH I.S. Battery Pack (2100 mAh)

- **KBP-4** AA Refillable Battery Pack (Holds 12 AA-Size Cells)

- **KSC-19** Regular Rate Ni-Cd Charger
- **KSC-24** Rapid Rate Dual-Chemistry Ni-Cd/Ni-MH Charger

- **KMB-16** Multi-Charger Adapter

- **KVC-5A** Heavy-Duty D.C. Vehicular Drop-In Charger

- **KVC-3** Regular Rate Vehicular Charger Adapter for (KSC-19)
- **KVC-4** Rapid Rate Vehicular Charger Adapter for (KSC-24)

- **KMC-2S** MIL-SPEC Speaker Mic

- **KEP-1** Heavy Duty Earphone

- **KHS-11** 2-Wire Palm Mic with Earphone

- **KHS-12** 3-Wire Palm Mic with Earphone

- **KHS-14** Lightweight Single Muff Headset

- **KHS-15-BH** Heavy Duty Behind-the-Head Headset

- **KHS-1S-OH** Heavy Duty Over-the-Head Headset

- **KBH-10** Low Profile Belt Clip

Specifications

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Model	TK-480	TK-481
GENERAL		
Frequency Range	RX: 851 ~ 870 MHz TX: 806 ~ 825 MHz, 851 ~ 870 MHz (Talk Around)	RX: 935 ~ 941 MHz TX: 896 ~ 902 MHz, 935 ~ 941 MHz (Talk Around)
System	Max. 32	
Group	Max. 250 per system	
Channel Capacity (Conventional)	Max. 600	
PLL Channel Spacing (PLL step: 12.5 kHz)	25 kHz	12.5 kHz
Battery Voltage	7.5 V DC ± 20 %	
Battery Life (5-5-90 Duty Cycle)		
KNB-16A Battery	8 hours	
KNB-17A Battery	10 hours	
KNB-21N Battery	10.5 hours	
KNB-22N Battery	13 hours	
Operating Temperature Range	-22° F ~ +140° F (-30° C ~ +60° C)	
Frequency Stability (-22° F ~ +140° F)	±0.00025%	±0.00015%
Dimensions (W x H x D) [projections not included]	2-5/16 x 5-5/16 x 1-5/16 in. (58 x 135 x 34 mm) with KNB-21N battery	
Weight (net)	17.3 oz. (490 g) with KNB-21N battery, antenna and belt hook	
FCC ID	ALH22961110	ALH22992110
IC Certification	282195282	282195286

Model	TK-480	TK-481
RECEIVER (Measurements made per TIA/EIA-603)		
RF Input Impedance	50 Ω	
Sensitivity (12 dB SINAD)	0.30 µV	
Selectivity	70 dB: ±25 kHz	63 dB: ±12.5 kHz
Intermodulation Distortion	65 dB: ±25/50 kHz	60 dB: ±12.5/25 kHz
Spurious Response	70 dB (except 1/2 IF)	
Audio Output	500 mW at 16Ω, with less than 5% distortion	
Channel frequency spread	19 MHz	6 MHz
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output	Hi: 2.5 W, Lo: 1 W	
RF Output Impedance	50 Ω	
Spurious & Harmonics	60 dB	
Modulation	16KØF3E	11KØF3E
FM Noise	45 dB	40 dB
Audio Distortion	Less than 5%	
Channel Frequency Spread	64 MHz	45 MHz

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

FleetSync® is a registered trademark of Kenwood Corporation.
LTR® is a registered trademark of Transcrypt International.

ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV

footnotes from Front:

[1] Trunked Format: 32 Systems max. (prog. for LTR® or Conventional), 250 Groups per system max (limited per repeater channels programmed).
[2] Keypad models only.
[3] DTMF Encode includes PTT ID, Emergency ANI, Manual Encode (keypad models), Auto-Dial (32 numbers); DTMF Decode includes Stun (dead beat disable), primary/secondary selective cal with call alert and transpond.
[4] KPG-49D required: Windows®98/ NT/ 2000/ Me/XP compatible.
[5] Kenwood LTR® Features: KPG-49D Group Delete/Add, LTR® Talk Around, Scan Revert Group Display, System Scan, Group Scan, Auto Search.
[6] FleetSync® (not FleetSync® II capable).
[7] Short Text Messages are radio stored & LCD displayed.

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ADVANCED WIRELESS COMMUNICATIONS

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